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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/824,312

04/14/2004

Wenkwei Lou

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5987

7590

06/27/2006

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EXAMINER

WANG, ALBERT C

ART UNIT

PAPER NUMBER

2115

DATE MAILED: 06/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/824,312

Applicant(s)

LOU, WENKWEI

Examiner

Albert Wang

Art Unit

2115

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 25-27 is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

1. Original claims 1-27 are pending.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Park et al., U.S. Patent No. 5,861,822 ("Park"), in view of Joto, U.S. Patent No. 5,384,721.

As per claim 1, Park teaches a method for reducing power consumption of a wireless input device, the method comprising:

disabling power consuming circuitry of the wireless input device (fig. 3; col. 3, lines 52-60, control section 30 disabled; fig. 6, step 67-2; col. 6, line 64 – col. 7, line 5);
detecting an activation of the wireless input device (fig. 6, step 67-3); and
enabling the power consuming circuitry of the wireless input device for normal operation (fig. 6, step 67-4).

However, Park does not expressly teach detecting an unintentional activation of the wireless input device. Park teaches the need for minimizing power consumption of a keyboard's battery when operating in wireless mode (col. 2, lines 12-19). Joto teaches a method for minimizing power consumption due to unintentional activation of an input device (fig. 15) comprising:

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detecting an unintentional activation of the input device (fig. 14, step S27; col. 13, lines 16-35);

disabling power consuming circuitry responsive to the detecting of the unintentional activation (fig. 14, step S29);

detecting a removal of the unintentional activation of the input device (fig. 14, step S32; col. 11, lines 4-11); and

enabling the power consuming circuitry for normal operation (fig. 14, step S33).

At the time of the invention it would have been obvious to one of ordinary skill in the art that the teachings of Joto may be applied to Parks wireless input device, in order to further conserve the limited charge of the battery that powers the wireless input device.

As per claims 2 and 3, whether the detecting a removal comprises asynchronously detecting or synchronously detecting a removal is a matter of design.

As per claim 4, Park teaches the wireless input device is a keyboard (col. 3, lines 35-51).

As per claim 5, since wireless mice are commonly powered by battery, Joto's minimizing power consumption due to unintentional activation would be applicable to a wireless mouse as well.

As per claim 6, Joto teaches the detecting an unintentional activation comprises detecting an object accidentally placed on the wireless input device (col. 5, lines 56-59).

As per claim 7, Joto teaches the detecting an unintentional activation comprises detecting activation of the input device and detecting the unintentional activation of the input device after a predetermined period of time from the activation of the input device (fig. 14).

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As per claim 8, Park teaches the disabling power consuming circuitry comprises causing a processing unit to disable the power consuming circuitry of the wireless input device (col. 3, lines 52-60).

As per claim 9, Park teaches the wireless input device includes a processing unit and the disabling power consuming circuitry comprises disabling the processing unit and related control logic of the wireless input device (col. 3, lines 52-60).

As per claim 10, detecting an edge of a signal is well known in digital signal processing.

As per claim 11, Park teaches wherein the enabling power consuming circuitry comprises causing a processing unit to enable the power consuming circuitry of the wireless input device (col. 3, lines 52-60).

As per claim 12, Park teaches the wireless input device includes a processing unit and the enabling power consuming circuitry comprises enabling the processing unit and related control logic of the wireless input device (col. 3, lines 52-60).

As per claims 13-24, since Park/Joto teaches the method of claims 1-12, Park/Joto teaches claimed means.

Allowable Subject Matter

4. Claims 25-27 are allowed.

Conclusion

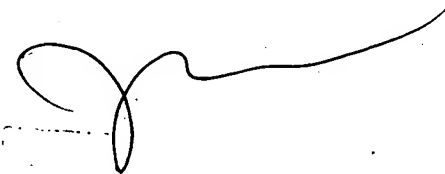
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Albert Wang whose telephone number is 571-272-3669. The examiner can normally be reached on M-F (9:30 - 6:00).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas C. Lee can be reached on 571-272-3667. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AW

A handwritten signature in black ink, consisting of a stylized, cursive letter 'S' followed by a horizontal line extending to the right.